

Abstract of the Invention

This invention relates to methods and arrangement for reducing complications after implantation of an intravascular stent and, more particularly, for reducing the risk of restenosis due to stent implantation. This is achieved by using 17beta-estradiol as vessel healing substance after implantation of an intravascular stent. The 17beta-estradiol can be coated onto an intravascular stent and be included in a drug elution system applied to the intravascular stent. This can be achieved by means of a surface coating process such as CVD process. 17beta-estradiol inhibits the growth of smooth muscle cells and stimulates the re-endothelialization after implantation of an intravascular stent. The present invention makes use of these effects in order to prevent restenosis and in-stent stenosis.

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